

S100 WLAN Dual RS232 Converter



Description:

S100 provides the wireless connection for RS232 device via WLAN and relieve the RS232 cable length limitation. S100 is 802.11b compatible and has two RS232 serial ports with one male and one female connector. S100 can transmit the RS232 data from the serial ports to another S100 or to any compatible WLAN Access Point and send the data anywhere in the world. Many applications can be supported by using S100 device; includes POS, data collector, vending machine, industry control, and others.

Features:

- Individual serial port settings
- Interface to all RS232 Serial devices
- Programmable baud rate (from 300bps to 115,200 bps)
- Full-duplex (serial data in, and serial data out)
- RTS/CTS flow control
- Software flow control (XON/XOF)
- Firmware upgrade through WLAN or USB
- Supports full mobility and seamless roaming from cell to cell
- Easy set up via USB as well as RS232 Set-Up Utility
- LED status and activity indicators for easy installation, monitoring and diagnostics
- Link to WLAN Access Point (referred as infrastructure mode)
- Link to another WLAN station (referred as "ad hoc" mode)

Specifications:

- **RS232 Features:**
 - Baud Rate Options: 115200, 57600, 38400, 19200, 9600, 4800, 2400, 1200, 600, 300 bps
 - Data Length Options: 7, 8 (default) bits
 - Parity options: Odd, Even, None (default)
 - Stop Bits Options: 1 (default), 2 bits
 - Handshake Flow Control:
 - RTS/CTS (Hardware flow control)
 - XON/XOF (Software flow control)
 - Uses XON=11hex, XOF=13hex
 - RS232 Connection:
 - One 9-pin Male DE-9 connector and one 9-pin Female DE-9 connector
 - Serial USART Buffer: 256 bytes input, 1024 bytes output

- **WLAN Radio Features:**

- Protocol Type: 802.11b standard compliant
- Operating Range:
 - Open Environment: 1000 ft./300m
 - Office Environment: 100-330 ft./30-100m
- Security: WEP (Wired Equivalent Privacy) 64 and 128 bit encryption
- Site Survey Utility: Allows users to browse the available active Access Points to which S100 users can connect

- **Radio Characteristics:**

- Spread Spectrum Technology: DSSS (Direct Sequence Spread Spectrum)
- RF Range: 2.4 ~ 2.4835 GHz
- Data Rate: 11 / 5.5 / 2 / 1 Mbps
- Modulation: DBPSK for 1 Mbps, DQPSK for 2 Mbps, CCK for 5.5 / 11 Mbps
- Operation channels: US - 11, Europe - 13, France - 4, Spain - 2, Japan - 14
- RF Power Output (Typ.): +14 dBm
- Receive Sensitivity (Typ. @BER 10E-5): -82 dBm

- **Power:**

- Power Supply: 5 VDC Regulated Absolute Voltage Power Source Range +4.7 VDC to +15VDC (Supports direct automotive +12VDC Power bus)
- Current: Typ.: 250 mA, Max.: 400 mA.

- **Software:**

- No Driver needed
- Utility: User setup and Diagnostic software run on Windows 95 / 98 / Me / NT / 2000 / XP (for RS232 port) or run on Windows 98 / Me / 2000 / XP (for USB port)

- **Mechanical:**

- Antenna Connector: RSMA
- Dimensions: 46 x 34.7 x 10.7 in., 116.8 x 88.1 x 27.3 cm (without antenna)
- Weight: 10.9 oz./ 310 g (without antenna)

- **Environmental:**

- Temperature:
 - Operating: 0 to +55°C / 32 to 133
 - Storage: -20 to +65°C / -4 to +150
- Relative Humidity: 95% (non-condensing)

- **EMC Certifications:**

- U.S.A. FCC Part 15, Sections 15.247, 15.205, 15.209

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